Claims

1. A product produced by the process comprising the steps of:

applying a layer of photo-sensitized epoxy to the first side of a substrate having a first and second side;

exposing selected regions of varying thickness within the layer with a dose of light incident upon the second side of the substrate sufficient to permit polymerization of the selected regions such that upon removal of non-polymerized regions of the layer, following polymerization of the selected regions, the resulting three-dimensional structure has a varying thickness and a varying topography.

2. The product of claim 1, wherein the polymerized regions have a continuously varying thickness and the three-dimensional structure has a smoothly varying topography.

3. A three-dimensional article, comprising:

a substrate having a first side and a second side;

a photo-sensitized epoxy layer applied on the first side of the substrate, wherein selected regions of the epoxy layer have been exposed to a dose of light incident on the second side of the substrate sufficient to permit polymerization of the selected regions, with non-polymerized portions of the layer having been removed following polymerization of the selected regions, to produce a resulting three-dimensional structure with varying thickness and a varying topography.

4. A product of claim 3, wherein the thickness is continuously varying and the topography is smoothly varying.

5. A three-dimensional article, comprising:

a substrate having a first side and a second side;

a negative photo-sensitized epoxy layer applied on the first side of the substrate and then processed, including exposure ;of at least portions of the layer by light incident on the second side of the substrate, to produce a resulting three-dimensional structure with varying thickness and a varying topography.

6. An article of claim 5, wherein the three-dimensional structure is at its thickest part several times thicker than 100 micrometers.

7. An article of claim 5, wherein the three-dimensional structure has a continuously varying thickness and a smoothly varying topography.